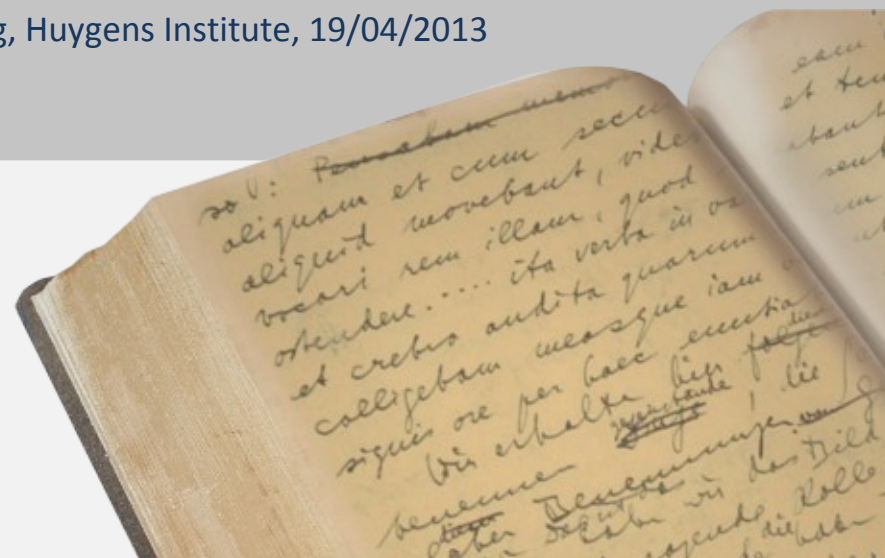


Towards a Social Semantic Scholarly Graph: the 'Wittgenstein Incubator' as part of an attempt to further model scholarly discursive interaction in DM2E

Prof. Dr. Stefan Gradmann (KU Leuven)

Easy Tools for Difficult Texts, Den Haag, Huygens Institute, 19/04/2013



Will cover:

- **An Introduction to DM2E**
- **The Scholarly Domain Model**
- **The Wittgenstein Incubator**

Will not cover:

- **Intro to RDF/S**
- **Intro to Europeana and the EDM**



02/2012-01/2015

Co-funded by the EC

Digitised Manuscripts to Europeana (DM2E): Who (1)?

- **Content Providers**

- European Association for Jewish Culture (Judaica)
- Max-Planck-Institut für Wissenschaftsgeschichte (ECHO)
- Österreichische Nationalbibliothek (Google)
- Staatsbibliothek zu Berlin (Kalliope)
- University of Bergen (Wittgenstein)
- CNRS ITEM (Nietzsche)
- National Library of Israel (Judaica)
- Berlin Brandenburgische Akademie (German Text Archive)
- Humboldt-Universität zu Berlin (Polytechnisches Journal)

- **Technology Providers**

- ExLibris (Aleph, MARC sources management)
- Universität Mannheim / Freie Universität Berlin (LoD2, D2R, SILK)
- Max-Planck-Institut für Wissenschaftsgeschichte (ECHO)
- Net7 S.r.l. (Muruca/Pundit)
- National Technical University of Athens (MINT)

Digitised Manuscripts to Europeana (DM2E): Who (2)?

- **Digital Humanities Community**
 - Dr. Tobias Blanke (King's College, London)
 - Sally Chambers (The European Library / DARIAH-D)
 - Prof. Dr. Stefan Gradmann (KU Leuven, Chair)
 - Prof. Dr. Gerhard Lauer (Göttingen University)
 - Dr. Alois Pichler (UIB)
 - Dr. Jürgen Renn (MPIWG)
 - Dr. Laurent Romary (HUB)
 - Prof. Dr. Susan Schreibman (Trinity College Dublin)
 - Dr. Claire Warwick (University College, London)
- **Community Building**
 - Open Knowledge Foundation (OKFN)
- **Coordination, Management & Information Science**
 - Humboldt-Universität zu Berlin (HUB)
- **TEL / Europeana Foundation** (Europeana Research)

Digitised Manuscripts to Europeana (DM2E): Who (3)?

- **New Associated Partners**
 - Universitätsbibliothek Frankfurt a.M. (UBFFM)
 - Bulgarian Academie of Sciences (BAS)
 - Ontotext
 - Brandeis University
 - Georg Eckert Institute for International Textbook Research (GEI)
 - Joint Distribution Committee (JDC)

Digitised Manuscripts to Europeana (DM2E): What?

- Provide substantial amounts of **digital content** to Europeana with a focus on **digitised manuscripts** (WP1)
- Integrate existing **technical building blocks**
 - from Europeana development
 - as well as from generic LoD oriented development
 - into a **generic production chain** for migrating data from various sources to the EDM as well
 - as for the **contextualisation** of the object representations (WP2).
- Explore usage scenarios of EDM metadata together with object data in a specialised RDF graph based platform for **humanities research** making available specialised visualisation and reasoning environments (WP3).

WP3: Digital Humanities Requirements and Related Engineering - Context

Goal: lower the barriers for **digital content curation** by providing an integrated, flexible, semantic based environment targeted to **digital humanities scholars**

Structured or semi-structured data sources

Compliant web pages with metadata

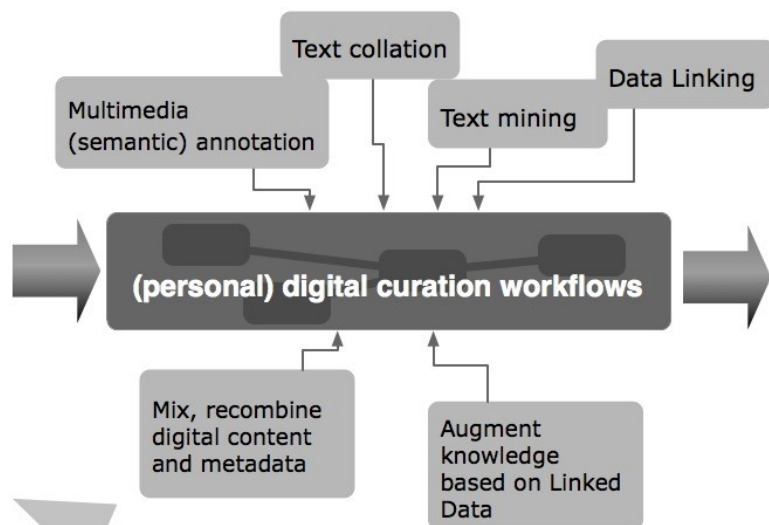
Europeana (EDM)

Partners/third party platforms

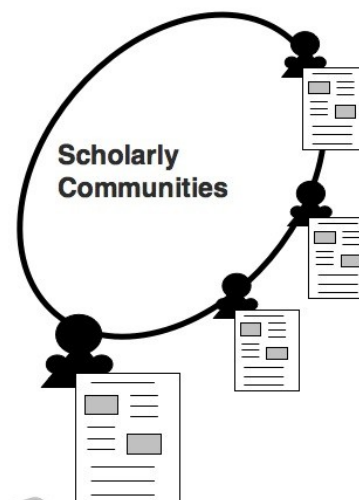
Linked Open Data Cloud

Web of Data

Digital re-mix and curation tool
for humanities scholars and domain experts



- Custom virtual collections
- Curated, domain specific mashups
- Scientific contributions
- etc..



Linked, semantically structured content
further enriching the data web

- Prototype **platform enabling digital scholarship** in combining EDM RDF metadata, digital surrogates and Linked Data ...
- ... building on an **ontological representation of scholarly work** based on a common understanding of its constituents
- ... resulting in an increasingly complex **social semantic scholarly graph** containing RDF statements such as
 - Version_A – isSuccessorOf – Version_B
 - Statement_1 – contradicts – Statement_2
 - Scribe_Y – copiedFrom – Scribe_Z
- ... and which could **feed back richly contextualised EDM** to Europeana!

An example: De arte venandi cum avibus

De Arte Venandi ... (1)

Frederick II, Holy Roman Emperor: De arte venandi cum avibus. Moamin. Gerardus Falconarius. Ghatrif. Grisofus medicus



Shelfmark	Valencia Universitat de València, Biblioteca Històrica BH Ms. 601
Author	Frederick II, Holy Roman Emperor, 1194-1250 Gerardus, Falconarius Ghatrif Grisofus, Medicus
Date of Origin	around 1470
Place of Origin	Italy
Material	parchment
Extent	304 f.
Dimensions	329 x 211 mm
Illuminated	yes
Language	Latin

De Arte Venandi ... (2)

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www.europeana-regia.eu/en/manuscripts/authors/frederick-ii-holy-roman-emperor-1194-1250

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De Arte Venandi ... (3)

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Virtual International Authority File


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Frederick II, Holy Roman Emperor, 1194-1250   















Frédéric II empereur germanique 1194-1250 

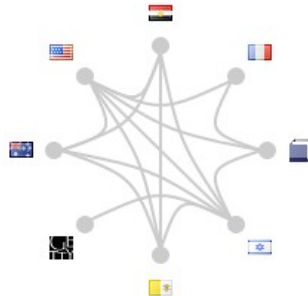
1250-1194 فردريك الثاني، الإمبراطور الروماني المقدس، 

Frederick II, Holy Roman Emperor Roman emperor, 1194-1250 

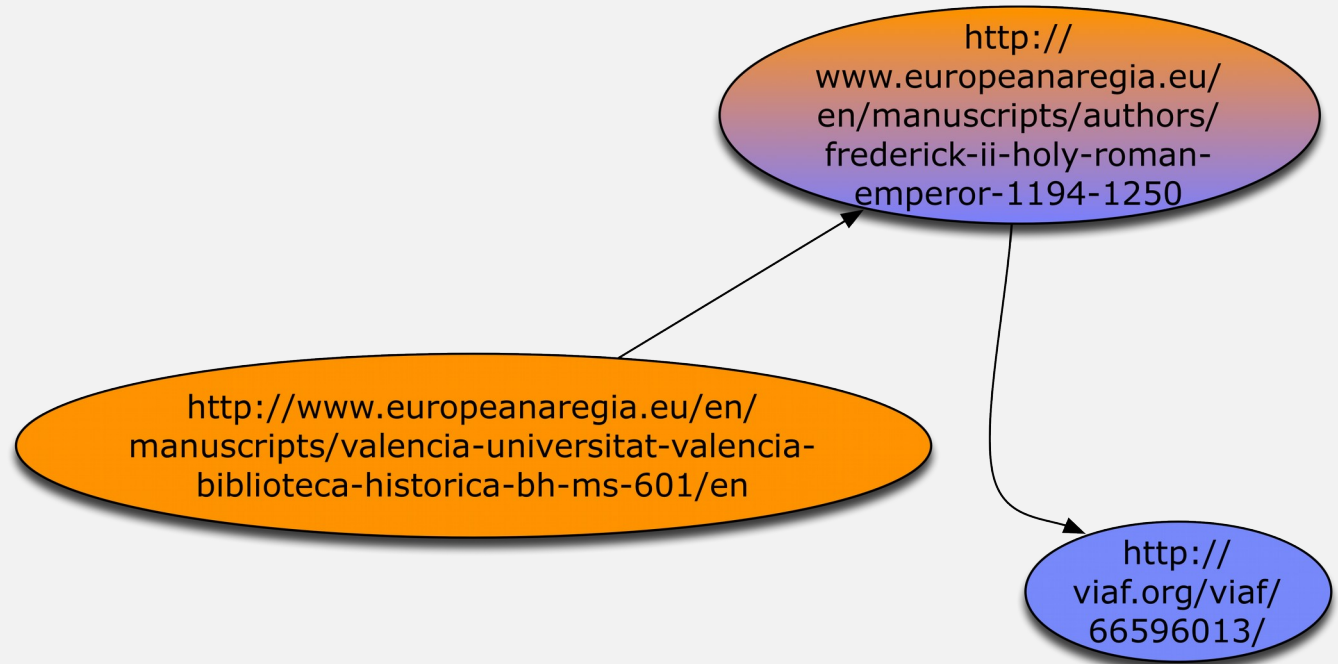
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Permalink: <http://viaf.org/viaf/66596013>

Vorzugsbezeichnungen

-   100 0 _ [1a Frederick 1b II, 1c Holy Roman Emperor, 1d 1194-1250](#)
-   100 0 _ [1a Frédéric 1b II, 1c empereur germanique, 1d 1194-1250](#)
-   200 _ | [1a Frédéric 1d II 1c empereur germanique 1f 1194-1250](#)
-   100 0 _ [1a فردريك 1b الثاني, 1c الإمبراطور الروماني المقدس, 1d 1194-1250](#)
-   100 0 _ [1a Frederick 1b II, 1c Holy Roman Emperor, 1d 1194-1250](#)
-   100 0 _ [1a Frederick 1b II, 1c Holy Roman Emperor, 1d 1194-1250](#)
-   100 1 _ [1a Frederick II, Holy Roman Emperor 1g Roman emperor, 1194-1250](#)



De Arte Venandi ... Subgraph 1



De Arte Venandi ... (4)

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Italy

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De Arte Venandi ... (5)

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Click the  icon to view the hierarchy.

ID: 1000080 **Record Type: administrative**

Italy (nation)


Coordinates:
Lat: 42 50 00 N *degrees minutes* Lat: 42.8333 *decimal degrees*
Long: 012 50 00 E *degrees minutes* Long: 12.8333 *decimal degrees*

Note: Inhabited since 50,000 BCE; settled by Indo-Europeans 1850 BCE, Etruscans 1600 BCE, and Greeks 800 BCE; united by Romans 270 BCE; independent states rose after fall of Holy Roman Empire, notably Naples, Milan, Florence, Venice and papacy; reunited in the 19th century; official language is Italian, though significant minorities speak German, French, and Slovene.

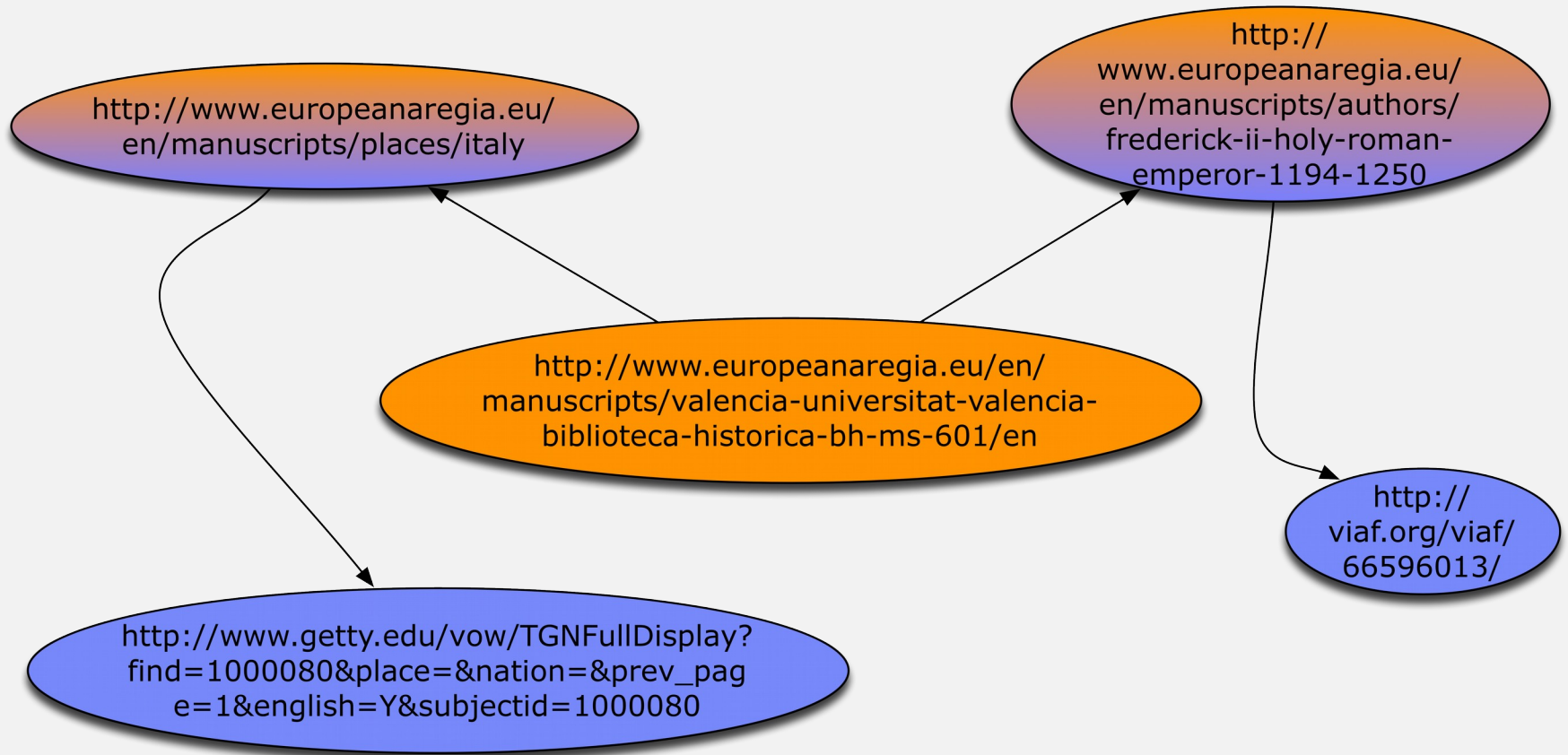
Names:

Italia (**preferred**, C, V, Spanish-P, U, N) Roman name; is also modern Italian name
(Italian-P, U, N)
(Latin-P, U, N)

Repubblica italiana (C, V, O, Italian, U, N)
Repubblica Italiana (C, V, Italian, U, N)
Italy (C, O, English-P, U, N)



De Arte Venandi ... Subgraphs 1+2



Frederick II, Holy Roman Emperor: De arte venandi cum avibus. Moamin. Gerardus Falconarius. Ghatrif. Grisofus medicus



Shelfmark	Valencia Universitat de València, Biblioteca Històrica BH Ms. 601
Author	Frederick II, Holy Roman Emperor, 1194-1250 Gerardus, Falconarius Ghatrif Grisofus, Medicus
Date of Origin	around 1470
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Material	parchment
Extent	304 f.
Dimensions	329 x 211 mm
Illuminated	yes
Language	Latin

De Arte Venandi ... (6)

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Latin; latin

From [ISO 639-2: Codes for the Representation of Names of Languages - Part 2: Alpha-3 Code for the Names of Languages](#)

Details Visualization

Latin

latin

Bibliographic Code

URI(s)

> <http://id.loc.gov/vocabulary/iso639-2/lat>

Instance Of

> [MADS/RDF Language](#)

> [MADS/RDF Authority](#)

> [SKOS Concept](#)

> [RDF Resource](#)

> [ISO6392 Language](#)

Scheme Membership(s)

> [ISO 639-2: Codes for the Representation of Names of Languages - Part 2: Alpha-3 Code for the Names of Languages](#)

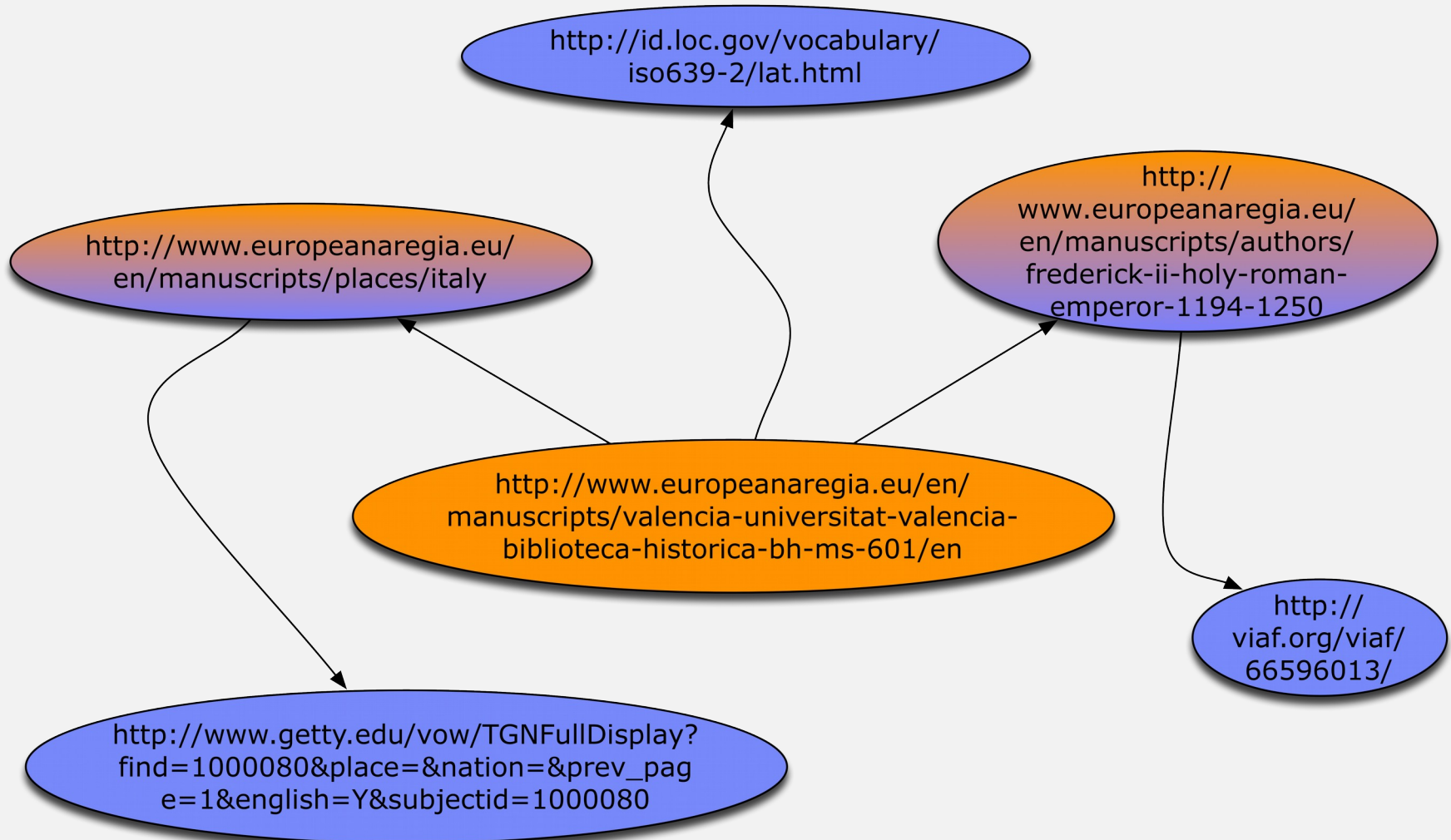
Collection Membership(s)

> http://id.loc.gov/vocabulary/iso639-2/collection_iso639-2_Bibliographic_Codes

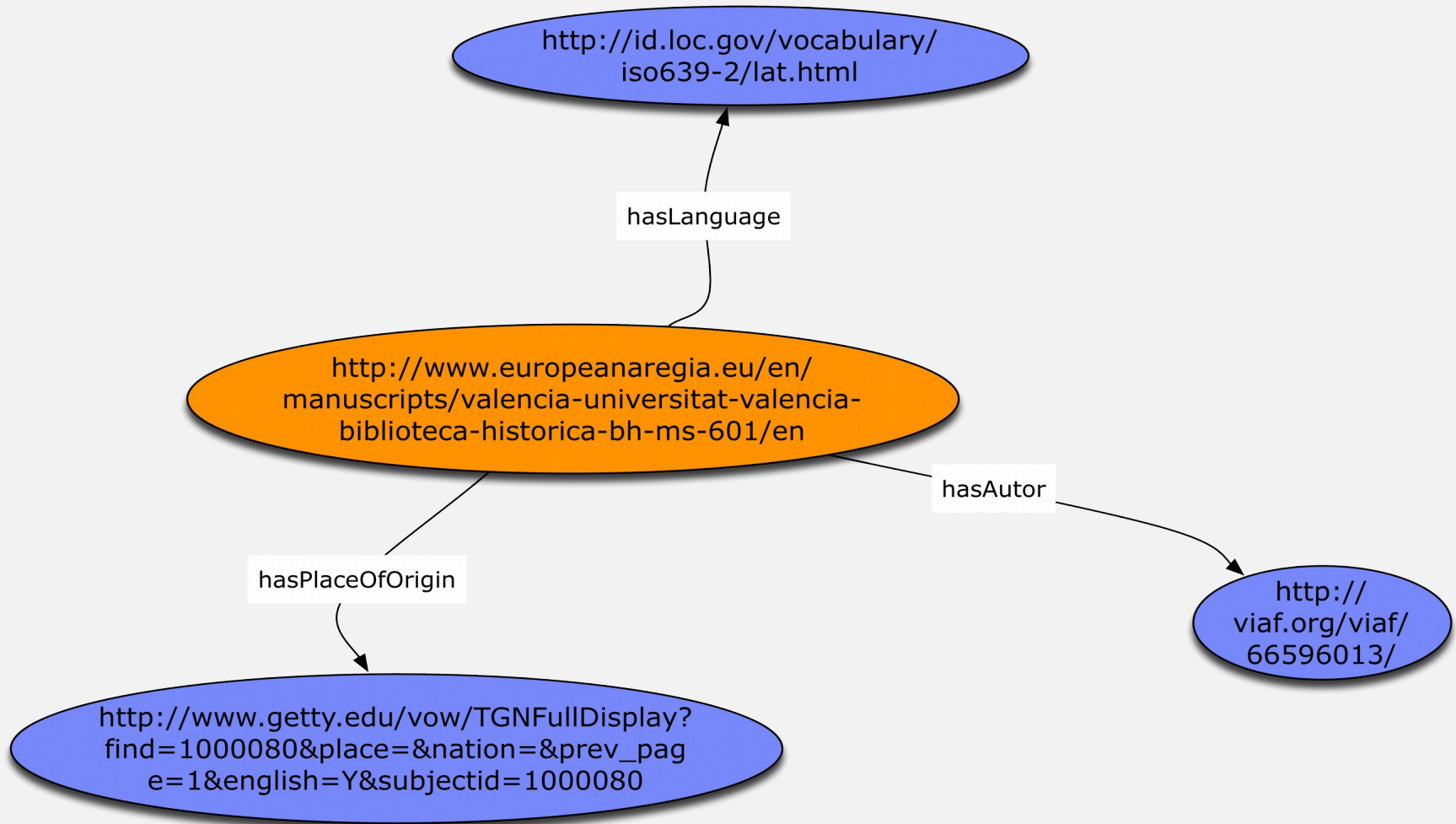
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> http://id.loc.gov/vocabulary/iso639-2/collection_iso639-2

De Arte Venandi ... (6)



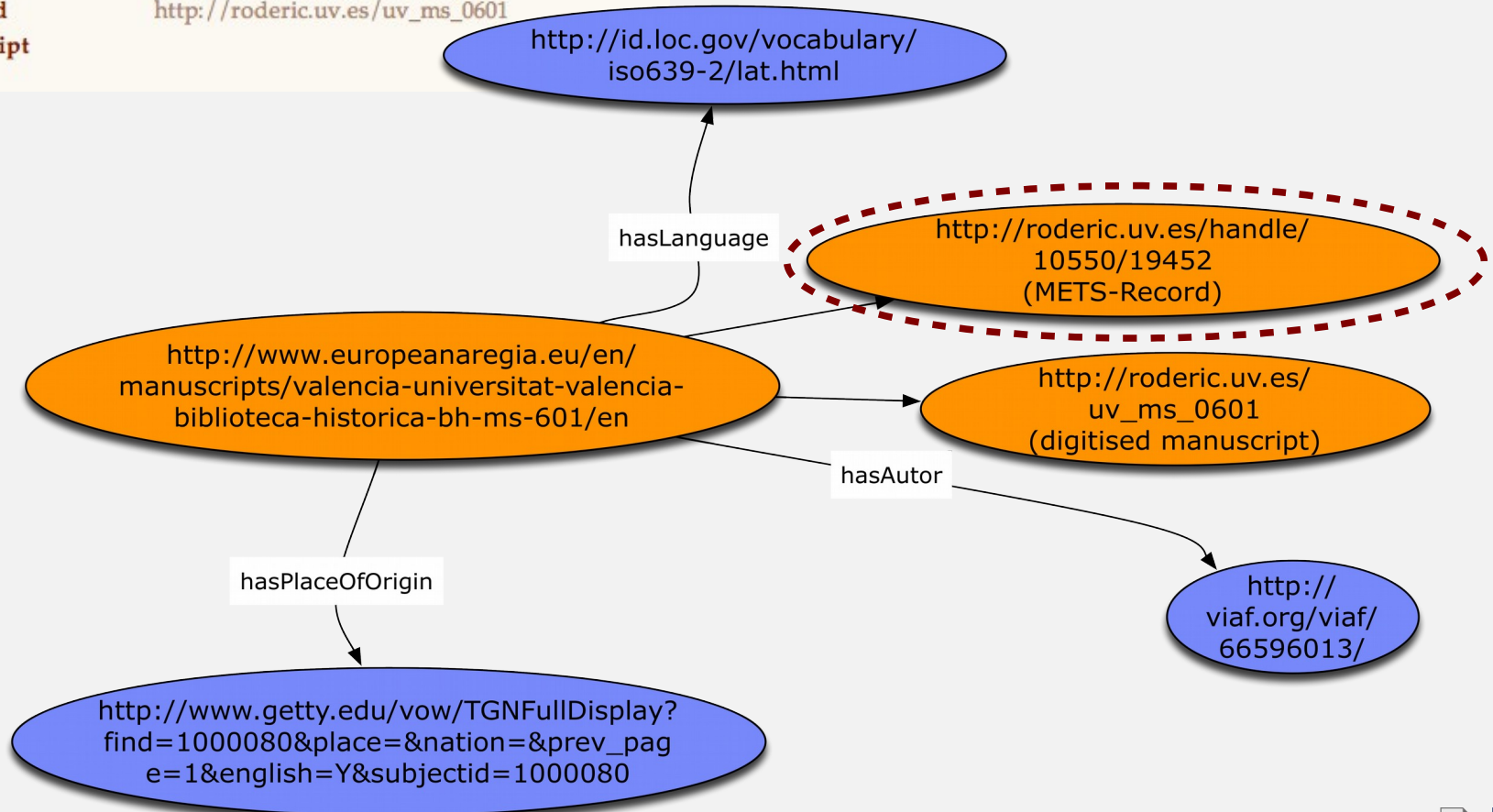
De Arte Venandi ... done 'right'



De Arte Venandi ... there's more!

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Digitised Manuscript
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De Arte Venandi ...

there

<http://id.loc.gov/vocabulary/iso639-2/lat.html>

xmlui.dri2xhtml.METS-1.0.item-somn/tafofcontents: 1. f. 3r-5r: [Prologus] "[text] Presens opus agendi nos induxit instans tua petitio vir clarissime, M. S. ... nobiles delectantur, vita comite, post complementu[m] huius operis dicetur a nobis. [rúbr.] Divi augusti Federici secundi romanor
2. f. 5r-56r: "[rúbr.] Incipit[ue] eius tractat[us] [et] primo de divisione g[e]n[er]aliter aviu[m] in aquaticis terrestribus [et] mediis. Item in rapacibus [et] non rapacibus. [text] In hoc autem primo tractatu huius operis dicemus generaliter de avibus ...; [f. 55r] [et] que dicuntur anates campestres [et] plures alie ... [f. 56r] [rúbr.] Expicitus est primus tractatus"

ore:Aggregation
De Arte Venandi ...

3. f. 56r-115r: "[rúbr.] Incipit[ur] de divisione aviu[m] in rapacibus et non rapacibus. [text] In hoc autem primo tractatu huius operis dicemus generaliter de avibus ...; [f. 55r] [et] que dicuntur anates campestres [et] plures alie ... [f. 56r] [rúbr.] Expicitus est primus tractatus"

4. f. 115r-145r: "[rúbr.] Incipit[ur] de tractatu de divisione aviu[m] in rapacibus et non rapacibus. [text] In hoc autem primo tractatu huius operis dicemus generaliter de avibus ...; [f. 55r] [et] que dicuntur anates campestres [et] plures alie ... [f. 56r] [rúbr.] Expicitus est primus tractatus"

5. f. 145r-174v: "[rúbr.] Incipit[ur] de tractatu de divisione aviu[m] in rapacibus et non rapacibus. [text] In hoc autem primo tractatu huius operis dicemus generaliter de avibus ...; [f. 55r] [et] que dicuntur anates campestres [et] plures alie ... [f. 56r] [rúbr.] Expicitus est primus tractatus"

6. f. 174v-205v: "[rúbr.] Incipit[ur] de tractatu de divisione aviu[m] in rapacibus et non rapacibus. [text] In hoc autem primo tractatu huius operis dicemus generaliter de avibus ...; [f. 55r] [et] que dicuntur anates campestres [et] plures alie ... [f. 56r] [rúbr.] Expicitus est primus tractatus"

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(METS-Record)

edm:isNextInSequence

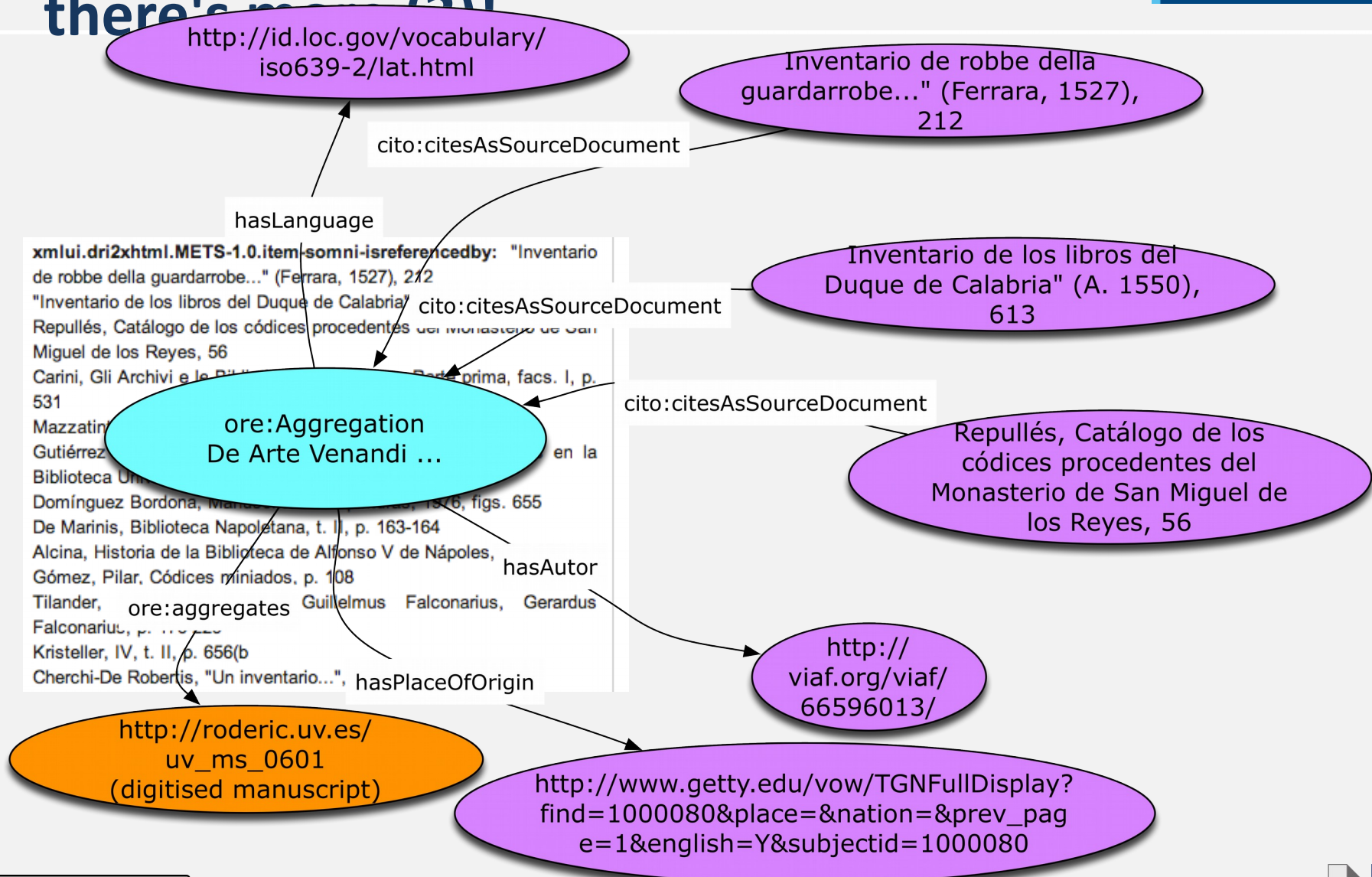
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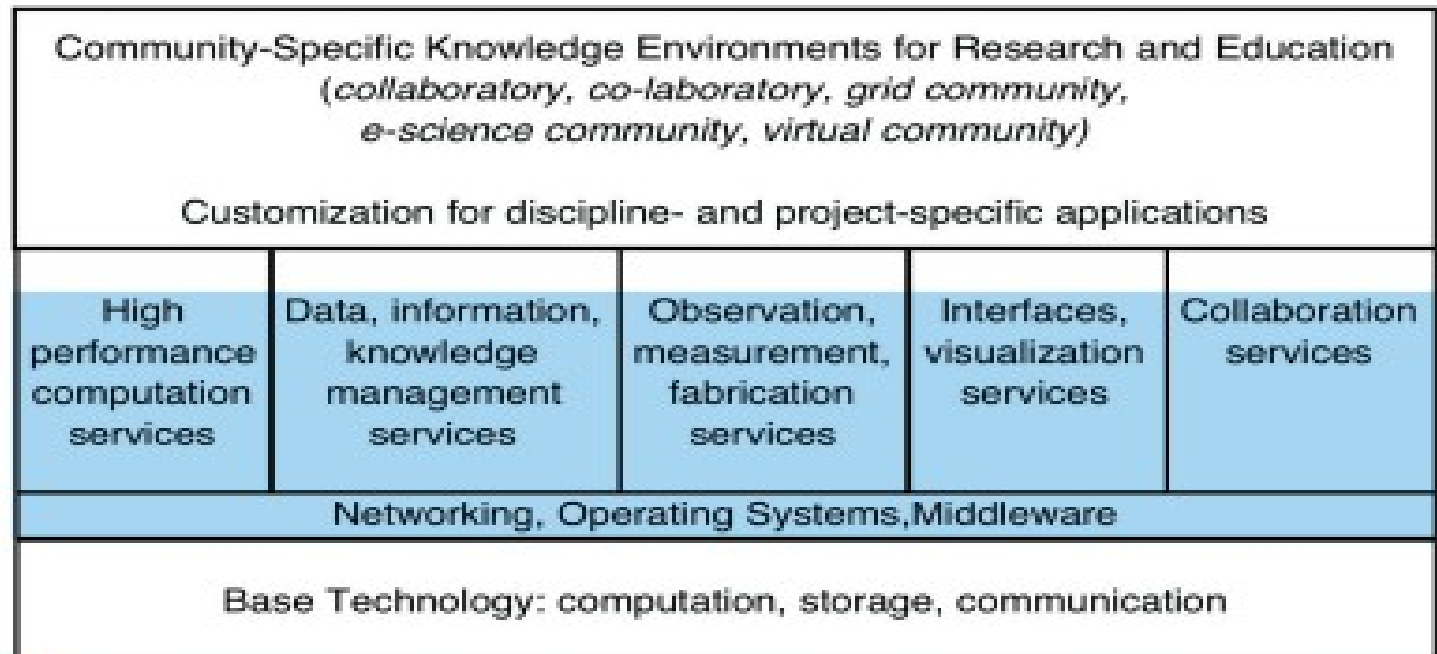
De Arte Venandi ...

there's more (2)



Beyond Infrastructure: The Scholarly Domain Model

Cyberinfrastructure: Atkins Report (2003)



 = cyberinfrastructure: hardware, software, services, personnel, organizations

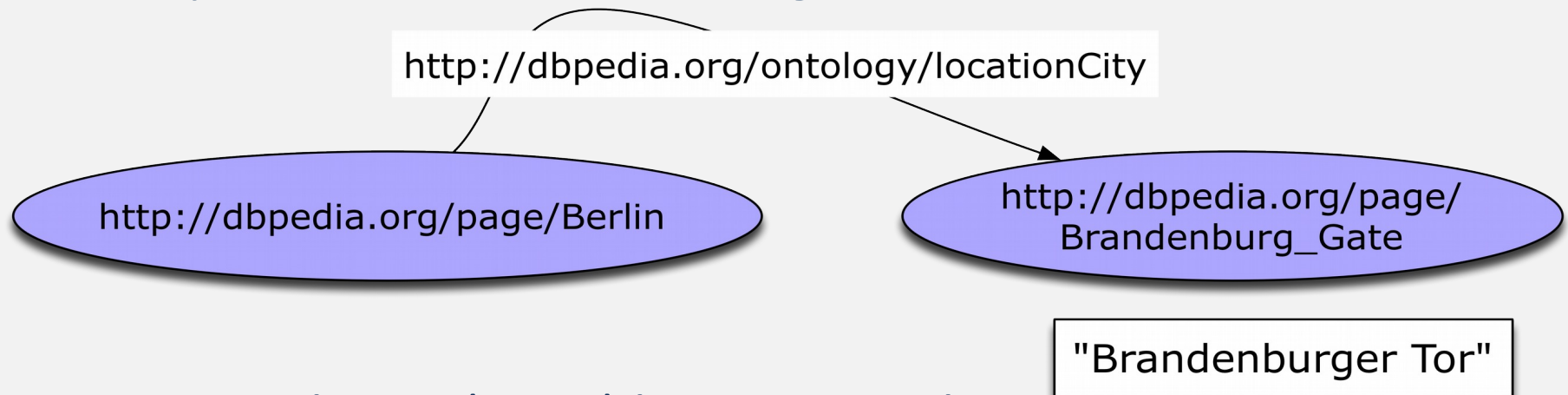
- “Mother of all infrastructure layer cakes” impacted
 - “Our Cultural Commonwealth”, e-Science (UK), TextGrid, DARIAH
 - With Isidore, Europeana and others being more content oriented and LoD based

Why Beyond Infrastructure?

- We want to move **beyond emulation mode** ...
- ... beyond 'pages' and 'links'
- “**Research infrastructure is not research** just as roads are not economic activity. We tend to forget when confronted by large infrastructure projects that they are not an end in themselves. [...] Infrastructure projects can become ends in themselves by developing into an industry that promotes continued investment. To sustain infrastructure there develops a class of people whose jobs are tied to infrastructure investment.” Rockwell (2010)
- → how can we better **understand and model primary research activities** in order to re-implement them more thoroughly?

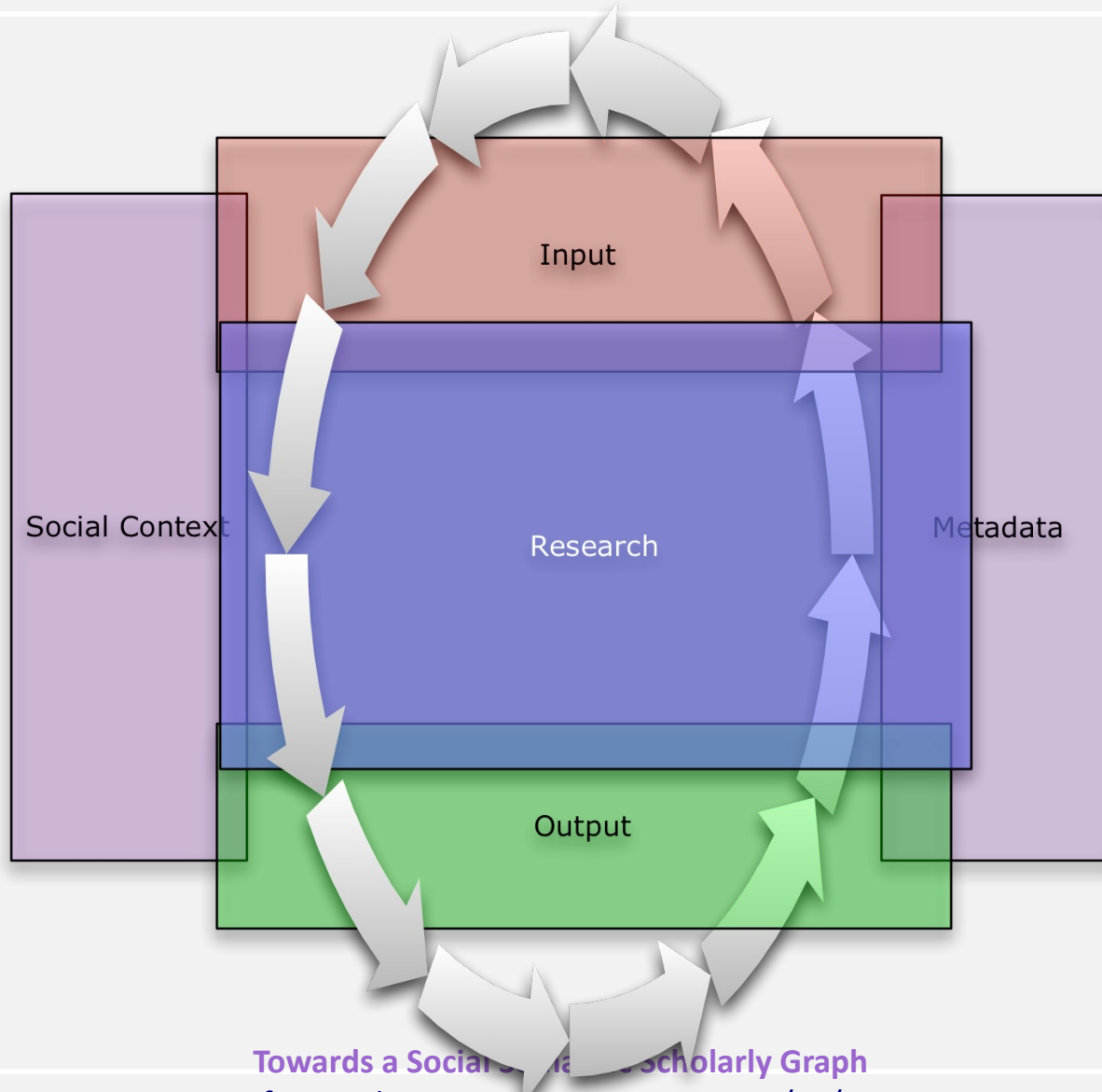
- Unsworth (2000)
 - *discovering, annotating, comparing, referring, sampling, illustrating, representing*
 - as the basis for tool-building enterprises for the Digital Humanities
- Palmer et al. (2009)(“scholarly information activities”)
 - *searching, collecting, reading, writing, collaborating*
- ... Blanke & Hedges (2011), Bamboo (2010), McCarty et. al. (2002) Anderson et al. (2010) ...
- Bernardou et al. (2010)
 - CRM activity and event based process model connecting research activities with information objects and propositions, i.e. including argumentation structures

- Typed statements on web resources (triples) and how they relate to each other, e. g.

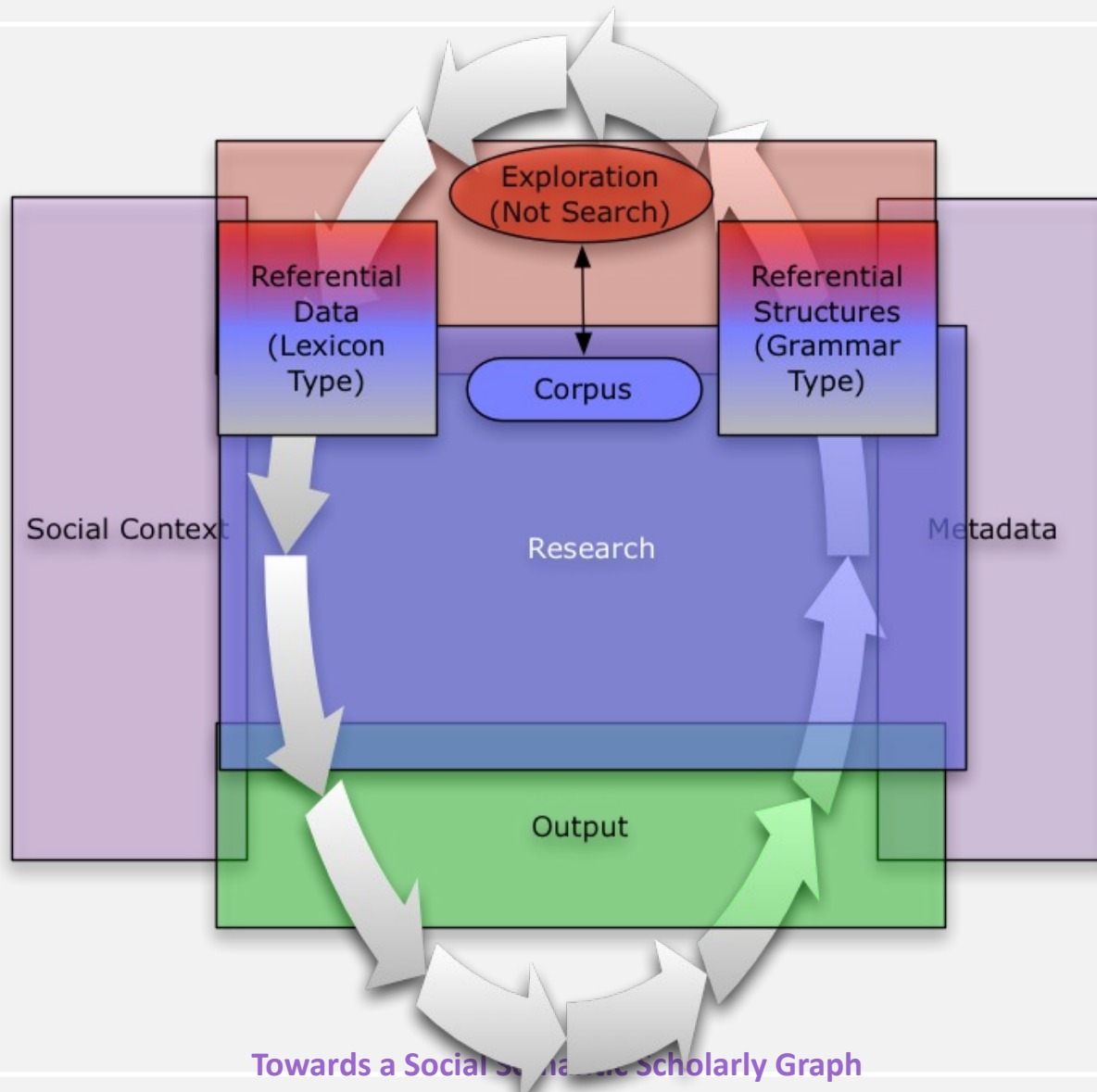


- + RDF Schema (RDFS) language with constructors for sub- and superclasses and -properties including the concept of inheritance
- → simple, deterministic logical operations on triple aggregations (“reasoning”)

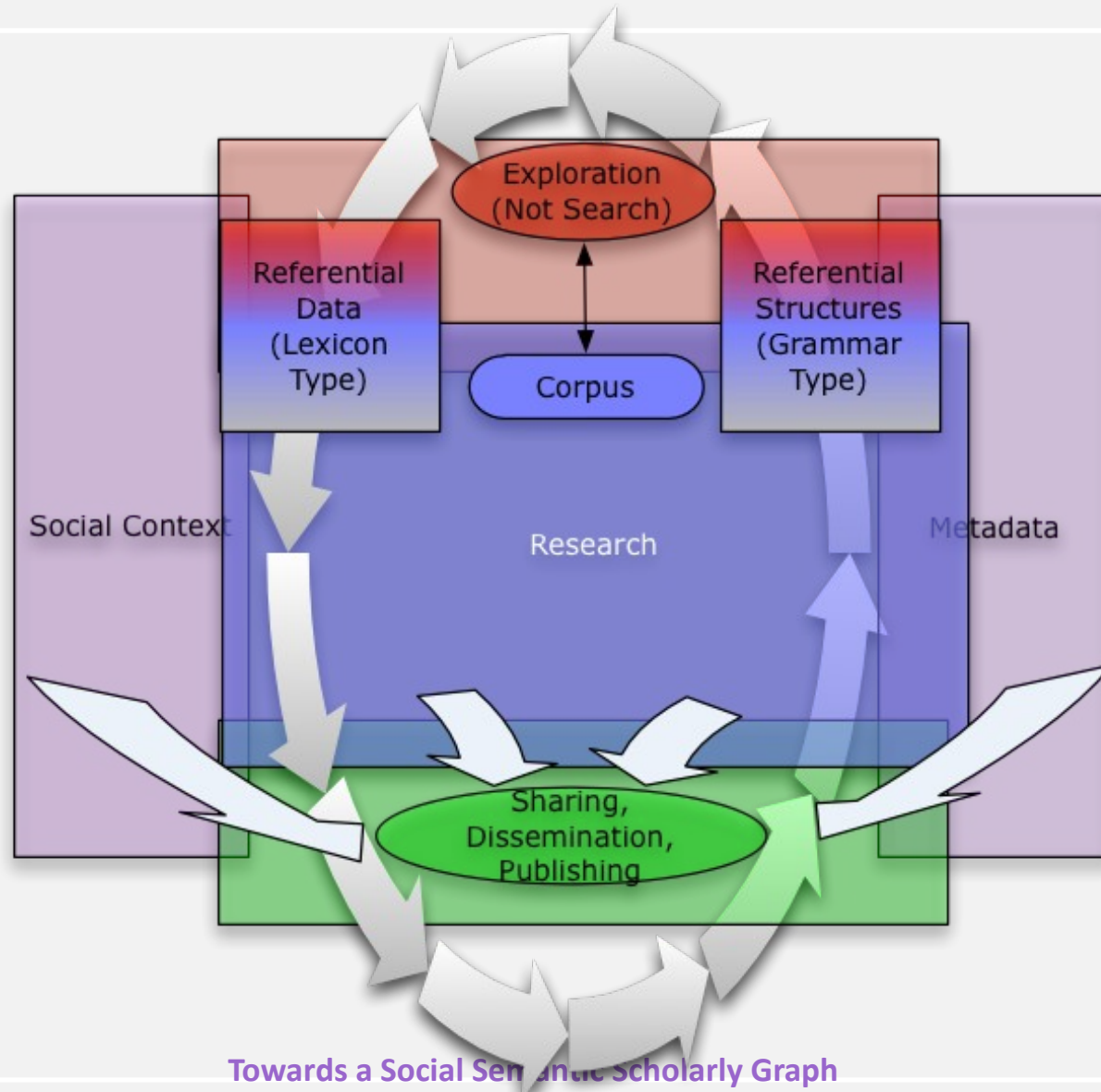
The Scholarly Domain from 10.000 feet above



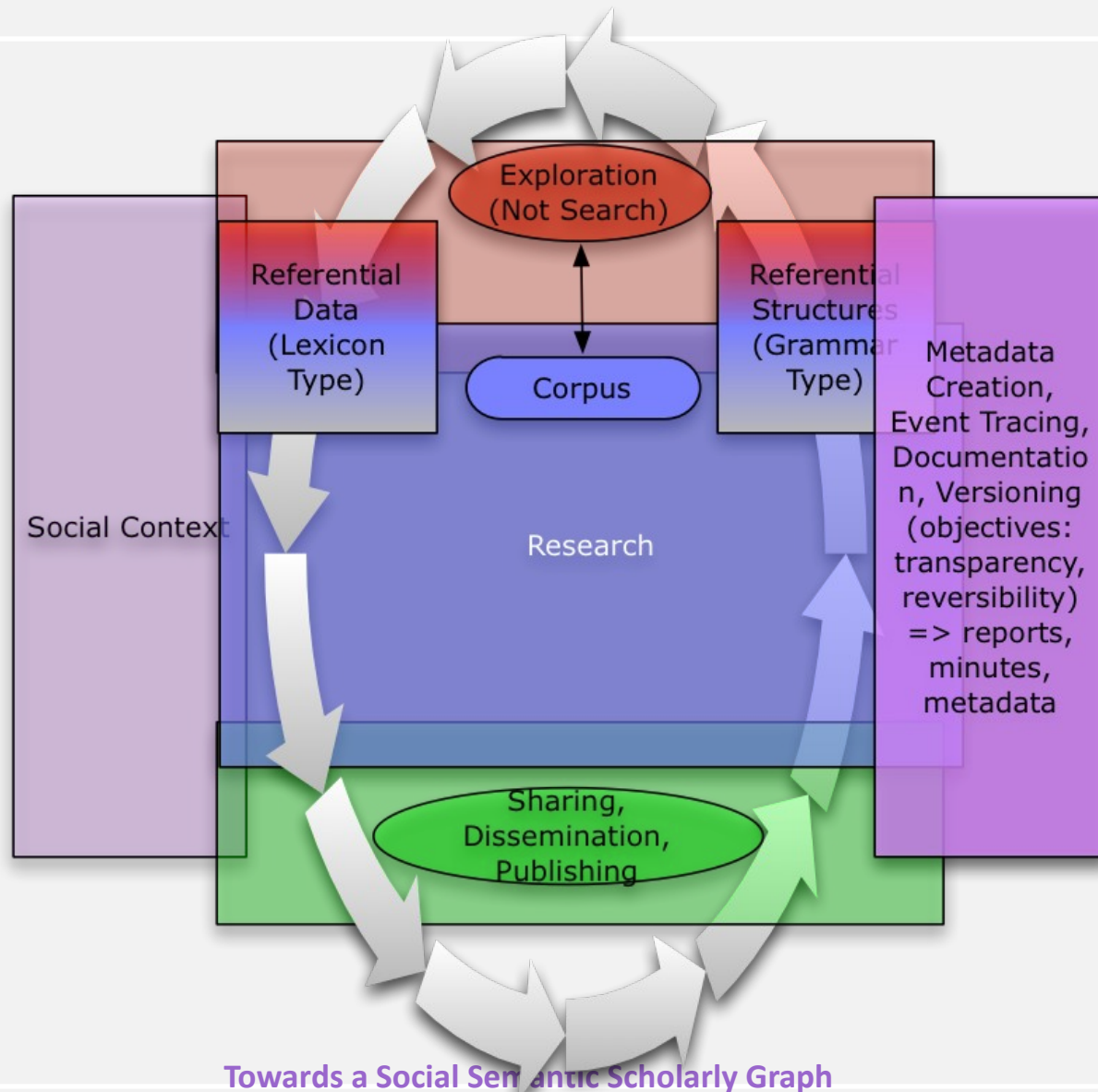
Input Area Details



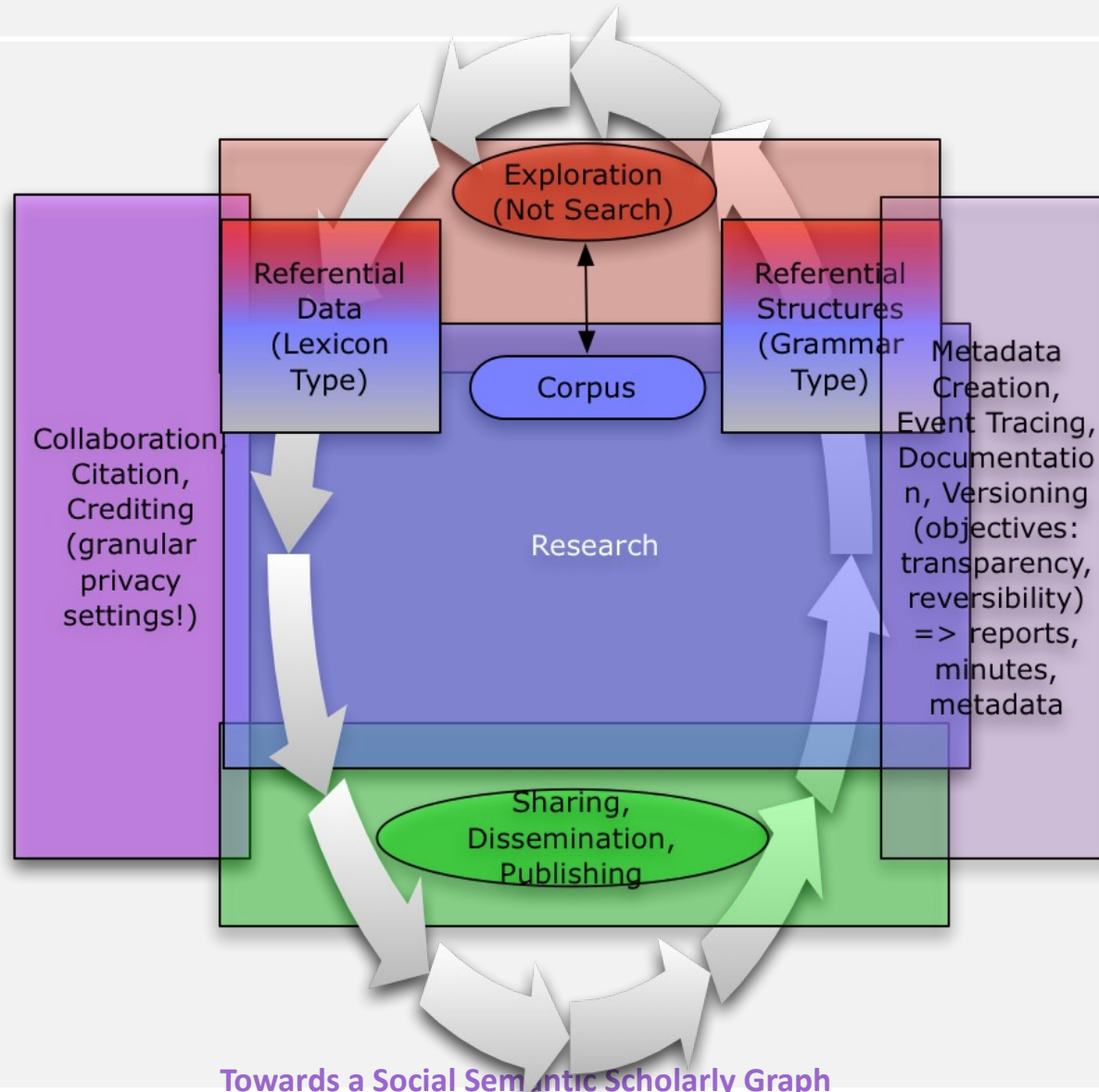
+ Output



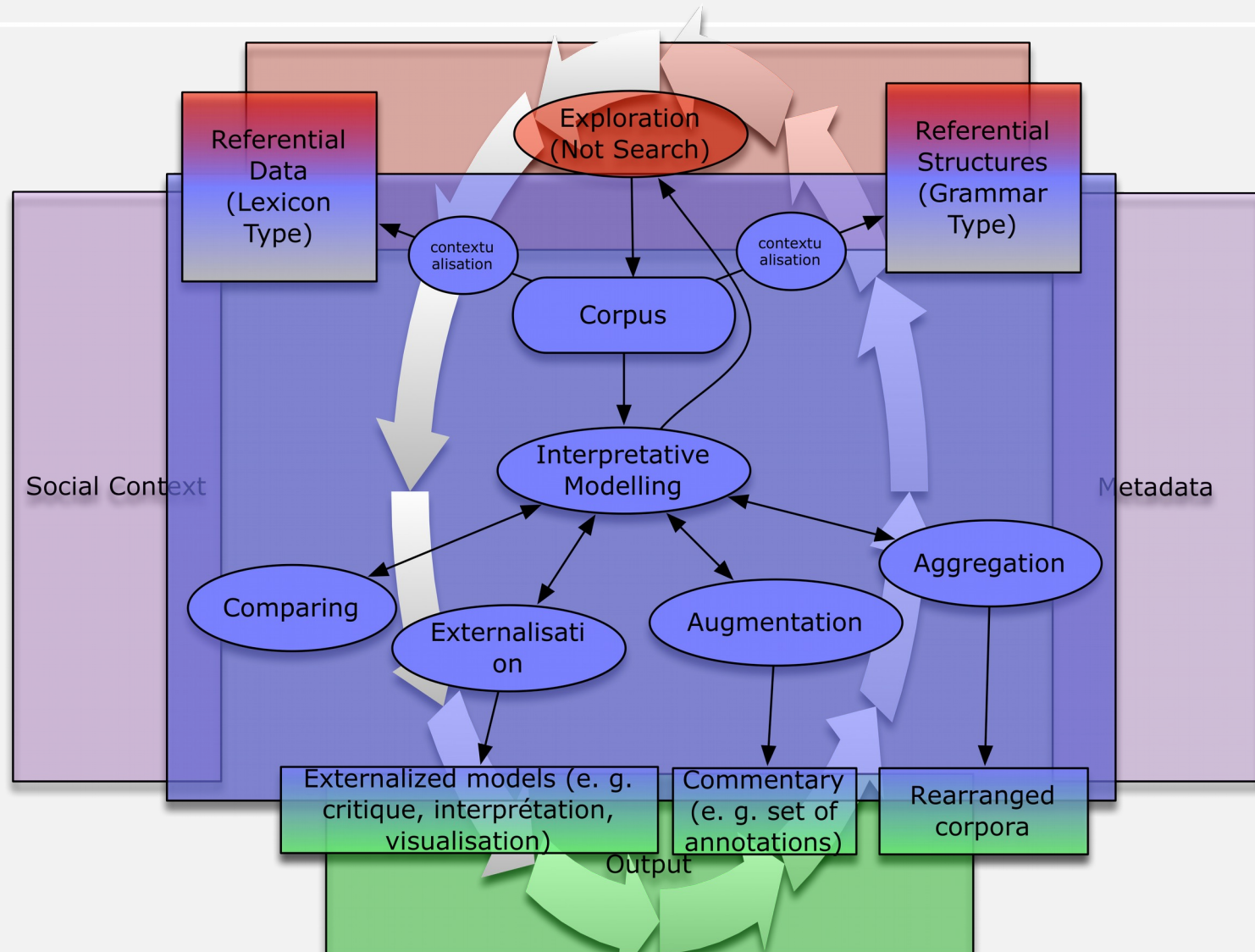
+ Metadata



+ Social Context



Zoom on Research



Towards a Social Semantic Scholarly Graph

Stefan Gradmann, Huygens Instituut, 19/04/2013

The Wittenstein Incubator

- a) Identify the intended functional extension of the 1st Pundit & Korbo versions (→ visualisation!)
- b) Stabilise scholarly domain model
- c) Identify additional specialisations of primitives
- d) Formalise, ontologically model such specialisations
- e) Populate the platform with Wittgenstein's Brown Book and related material
- f) Have ~10 scholars work in that environment
- g) Analyse and model the resulting scholarly semantic graph
- h) Iterate at least once from d) (or even c)!)
- i) Report at DH 2013

Wittgenstein SOURCE Privacy Credits

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About WittgensteinSource

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Ms-115: XI, Philosophische Bemerkungen	m	F D N
Ms-139a: Lecture on Ethics	m	F D N
Ms-140: Grosses Format	m	F D N
Ms-141	m	F D N
Ms-148: C4	m	F D N
Ms-149: C5	m	F D N
Ms-150: C6	m	F D N
Ms-152: C8	m	F D N
Ms-153a: Anmerkungen	m	F D N
Ms-153b	m	F D N
Ms-154	m	F D N
Ms-155	m	F D N
Ms-156a	m	F D N
Ts-201a1: Notes on Logic	m	F D N
Ts-201a2: Notes on Logic	m	F D N
Ts-207: Lecture on Ethics	m	F D N
Ts-212	m	F D N
Ts-213: Big Typescript	m	F D N
Ts-310: Brown Book	m	F D N

Ts-310,1 Ts-310,2

Ts-310,3 Ts-310,3a

Ts-310,4 Ts-310,5

Ts-310,6 Ts-310,7

WAB DISCOVERY (2008): Wittgenstein TS 310 G Trinity College Cambridge, Oxford University Press, University of Bergen

1.

Augustine, in describing his learning of language, says that he was taught to speak by learning the names of things. It is clear that whoever says this has in mind the way in which a child learns such words as "man", "tiger", "table", etc. He does not primarily think of such words as "today", "not", "but", "perhaps".

Suppose a man described a game of chess, without mentioning the existence and operations of the pawns. His description of the game as a natural phenomenon will be incomplete. On the other hand we may say that he has completely described a singular game. In this sense we can say that Augustine's description of learning the language was correct for a singular language then were. Imagine this language:-

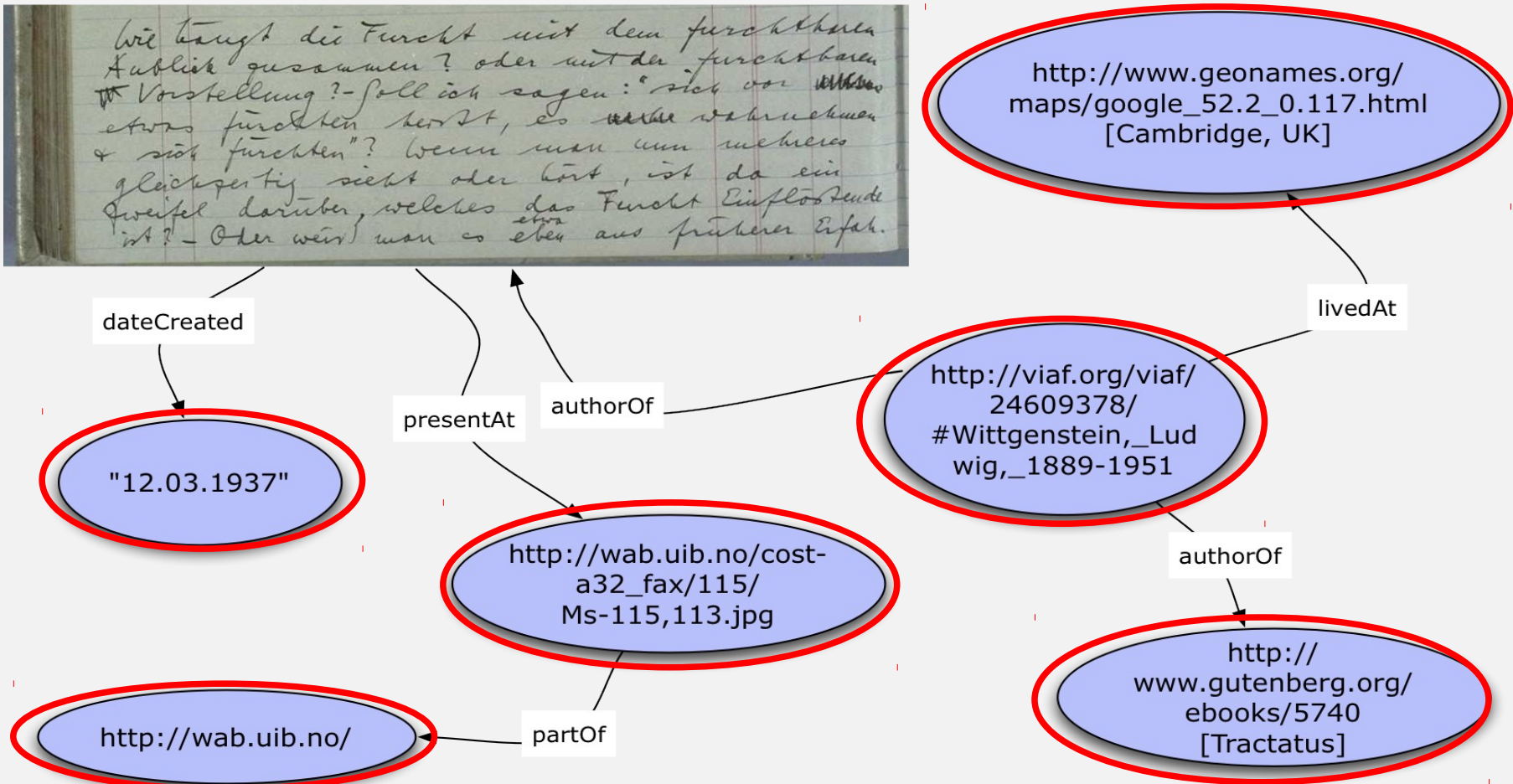
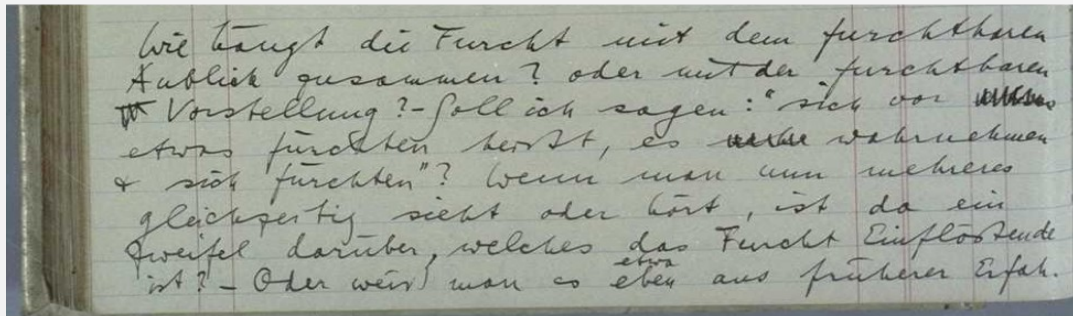
1). Its function is the communication between a builder A & his man B. B has to reach A building stones. There are cubes, bricks, slabs, beams, columns. The language consists of the words "cube", "brick", "slab", "column". A calls out one of these words, upon which B brings a stone of a certain shape. Let us imagine a society in which this is the only aspect of language. The child learns this language from the ground-up by being trained to its use. I am using the word "trained" in a way strictly analogous to that in which we talk of an animal being trained to do certain things. It is done by means of example, reward, punishment, and such like. Part of this training is that we point to a building stone, direct the attention of the child towards it, & pronounce a word. I will call this procedure ~~communicating~~ teaching of words. In the actual

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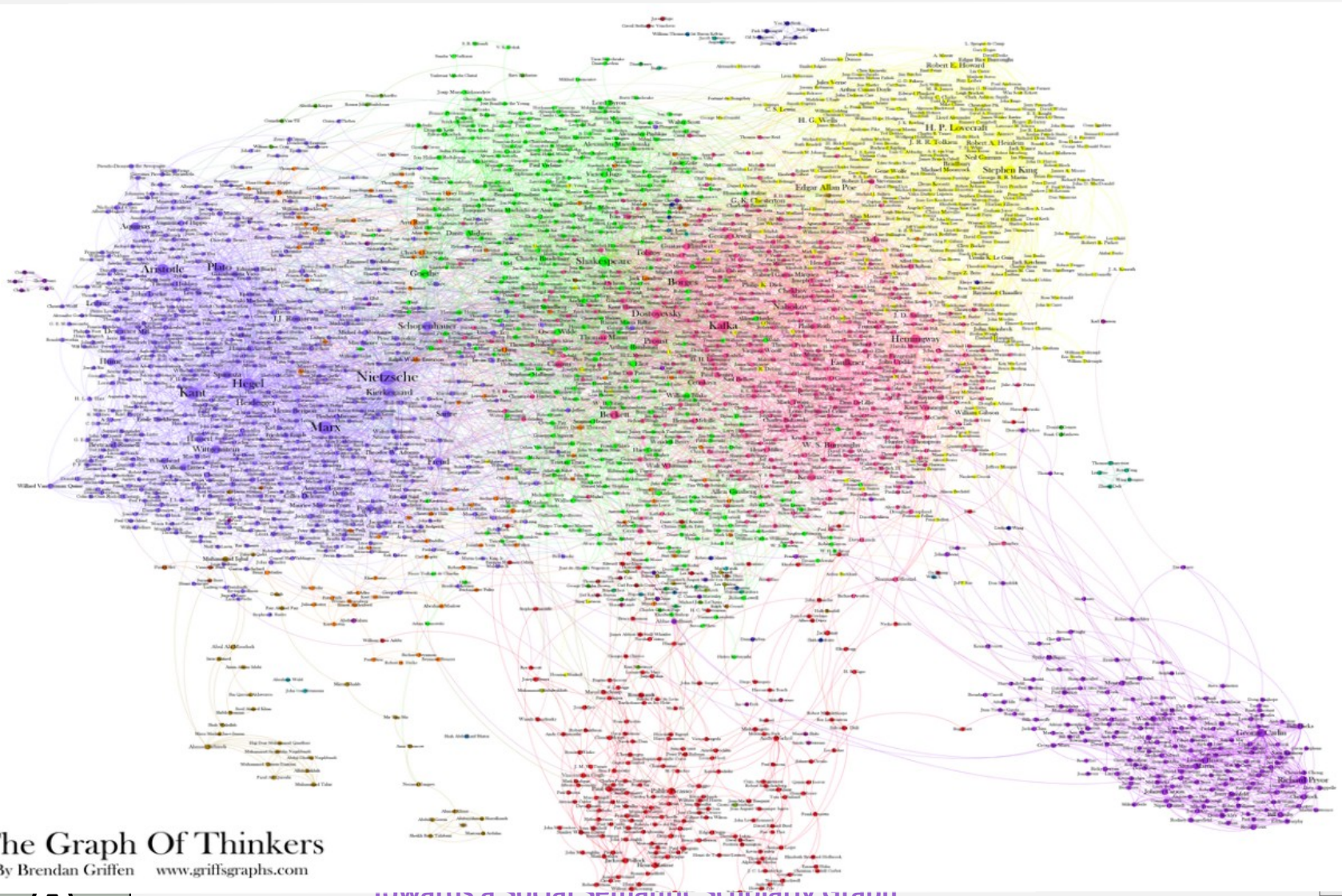
The screenshot displays the Pundit web application interface. At the top, there is a navigation bar with tabs for 'Text-fragment', 'Images', 'Image Fragments', 'Terms', 'Pages', and 'Named Content'. The 'Text-fragment' tab is active, showing a text fragment titled 'Before I begin to speak about my subject proper L...'. Below the title, the text of the fragment is displayed, starting with 'Before I begin to speak about my subject proper let me say a few introductory words. I feel I will have great difficulties in communicating the thoughts which I want to communicate, to you & I want to mention some of these difficulties because I think that this may possibly diminish them. The first I will mention — but by no means the greatest — is that, as you... know, English is not my native language & my expression will therefore not be as clear & precise as it would be desirable when one has something very difficult to communicate. Please help me in my task of making myself understood by overlooking as much as possible the faults against English grammar which will constantly occur in my speech. The second difficulty which I will mention seems to me to be by far more serious & to explain it I must tell you why I have chosen the subject I have chosen. When your former secretary honoured me by asking me to read a paper to your society the first thought that came into my head was that I would certainly do it & the second was this: I said to myself that if I had the opportunity of talking to a room full of people that I would use this opportunity to say something that comes from my heart & not to misuse the time that I was given by explaining some scientific matter to you which to be properly explained would need a course of lectures or an audience specially trained in one particular line of thought & that I would still less misuse this opportunity of speaking to you by giving you a popular lecture, say on logic, which would serve to make you believe that you understand a thing which as a matter of fact you don't understand (& which it is not a bit necessary that you should) & to gratify the very lowest of modern desires viz. the superficial curiosity about the latest discoveries of scientists I decided — I say — that I should use this opportunity to speak to you not as a logician, still less as a cross between a scientist & a journalist but as a human being who tries to tell other human beings something which some of them might possibly find useful, I say useful not interesting. The third and last difficulty I will mention is one that adheres to most philosophical explanations & it is this that it sometimes is almost impossible to explain a matter in such a way that the hearer at once sees the road he is lead & the endgoal to which it leads. That is to say it so very often happens that the hearer thinks "I understand perfectly what he says but what on earth is he driving at" or else that he sees what one is driving at & thinks "that's all very well but how is he going to get there". This perhaps is the gravest difficulty & all I can do is to ask you to be patient & to hope that in the end we will see both the road & where it leads to. — Now let me begin.

On the right side of the interface, there is a 'Triple Composer' section with fields for 'Subject', 'Predicate', and 'Object'. Below this, there is a 'My Items' section showing a list of items, including 'Ms-139a,1r[2]et1v[1]et2r[1]'. At the bottom right, there is a 'More info...' section with a 'Types' dropdown menu set to 'Text Fragment' and a 'More info...' link.

Contextualising Wittgenstein



Graph of Thinkers



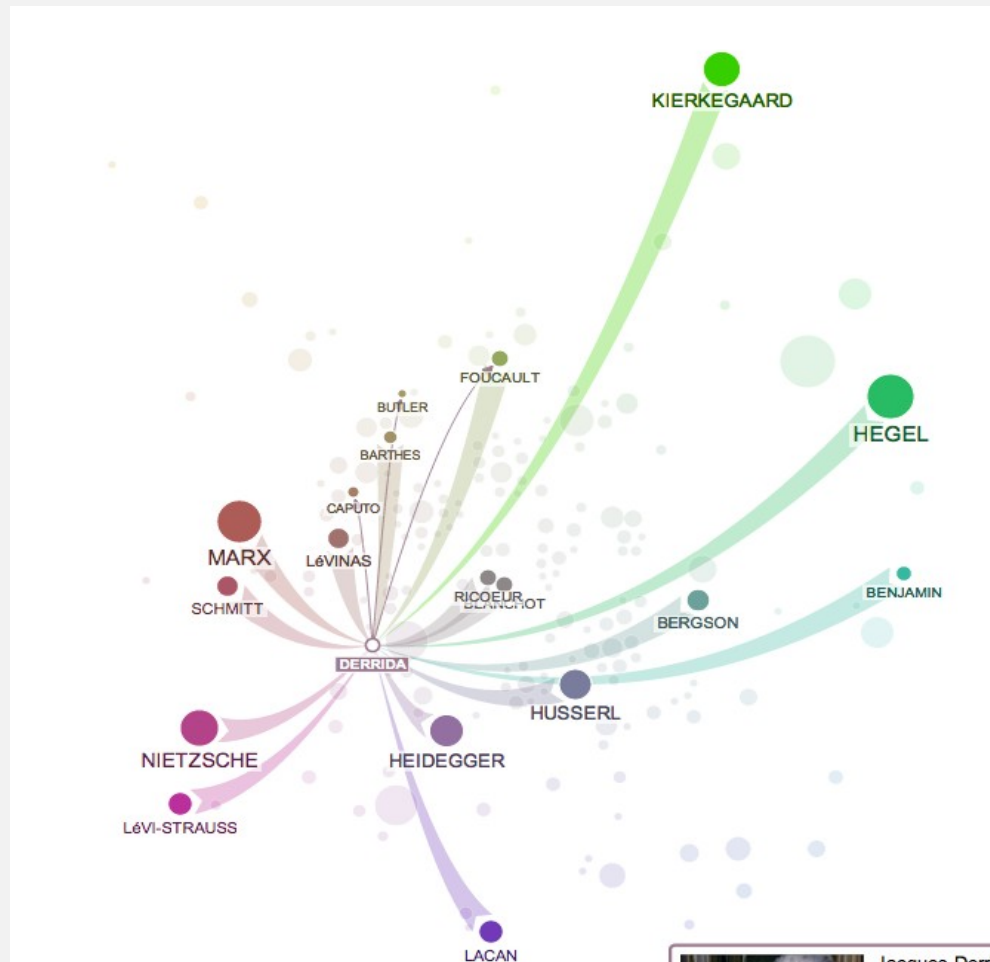
The Graph Of Thinkers

By Brendan Griffen www.griffgraphs.com

Towards a Social Semantic Semiology Graph

Stefan Gradmann, Huygens Instituut, 19/04/2013

Graph of Philosophers



- A **Social Semantic Scholarly Graph**
 - Enabling **interaction** (via Pundit and Edgemaps/LODLive)
 - Enabling **heuristic operations** (building on RDFS inference)
 - As an **object of scholarly study** (graph evolution modeling requires named graph based extensions for **versioning**, **provenance**, **authorisation** et.)
- **Ontologi components** for modeling scholarly discourse and interaction
 - Beware: “The limits of my language mean the limits of my world.” Tractatus, 5.6
- Tractatus, 7

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Thank you for your patience and attention